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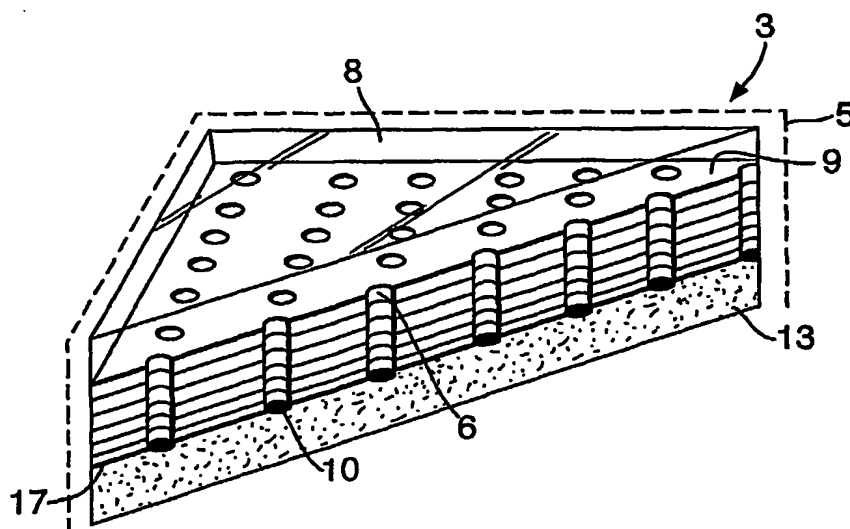
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[Continued on next page]

(54) Title: **LARGE AREA DETECTORS AND DISPLAYS**



(57) Abstract: A large area detector (3) for use, for example, as an x-ray detector for medical imaging consists of a radiation sensitive detector (8) in combination with a monolithic amplification device consisting of a plurality of alternately stacked dynode and insulation layers having channels (6) extending therethrough in communication with respective signal collectors (10). The large area detector (3) is capable of being formed in tiles of 1 m<sup>2</sup> or more whilst providing high resolution of the order of 50-60 pixels per mm<sup>2</sup>.



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,  
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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 6 384 519 B1 (STEINBECK JOHN ET AL) 7 May 2002 (2002-05-07)	1-7, 9-11,16, 17
Y	column 9, line 21 - column 15, line 23; column 17, line 42 - column 19, line 46; figures 1, 2, 7, 9	13,14,19
Y	DE 196 27 659 C1 (SIEMENS AG) 8 January 1998 (1998-01-08)	13,14
A	column 1, line 33 - line 68; figures	15
A	EP 1 085 556 A (HAMAMATSU PHOTONICS KK) 21 March 2001 (2001-03-21) paragraph '0057! - paragraph '0060!; figures 16,17	9,10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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